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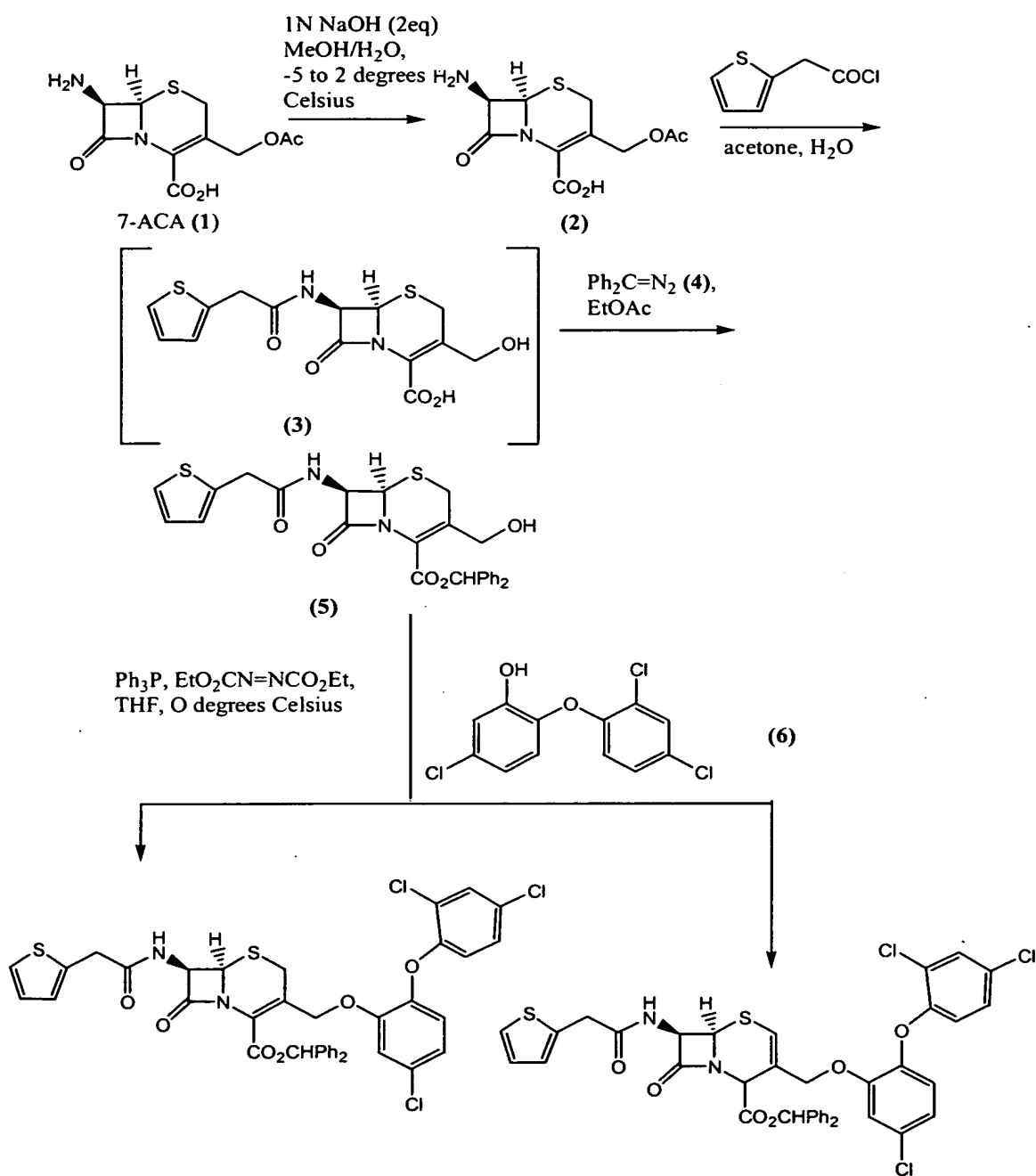


Bib Data Sheet

CONFIRMATION NO. 4026

SERIAL NUMBER 09/847,525	FILING DATE 05/01/2001 RULE	CLASS 424	GROUP ART UNIT 1645	ATTORNEY DOCKET NO. NB-2016.00
APPLICANTS Ming Fai Chan, Encinitas, CA; Rosario S. Castillo, San Diego, CA; Qing Li, La Jolla, CA; Venkata Ramana Doppalapudi, San Diego, CA; Mark Stephen Hixon, San Diego, CA; Thomas J. Lobl, Foster City, CA;				
** CONTINUING DATA ***** THIS APPLN CLAIMS BENEFIT OF 60/201,642 05/02/2000				
** FOREIGN APPLICATIONS *****				
IF REQUIRED, FOREIGN FILING LICENSE GRANTED** SMALL ENTITY ** ** 08/15/2001				
Foreign Priority claimed <input type="checkbox"/> yes <input type="checkbox"/> no 35 USC 119 (a-d) conditions <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Met after met Allowance Verified and Acknowledged _____ Examiner's Signature Initials		STATE OR COUNTRY CA	SHEETS DRAWING 14	TOTAL CLAIMS 73
INDEPENDENT CLAIMS 3				
ADDRESS 022836				
TITLE Beta-lactam antibiotics				
FILING FEE RECEIVED 912	FEES: Authority has been given in Paper No. _____ to charge/credit DEPOSIT ACCOUNT No. _____ for following:		<input type="checkbox"/> All Fees <input type="checkbox"/> 1.16 Fees (Filing) <input type="checkbox"/> 1.17 Fees (Processing Ext. of time) <input type="checkbox"/> 1.18 Fees (Issue) <input type="checkbox"/> Other _____ <input type="checkbox"/> Credit	

FIGURE 1



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FIGURE 2

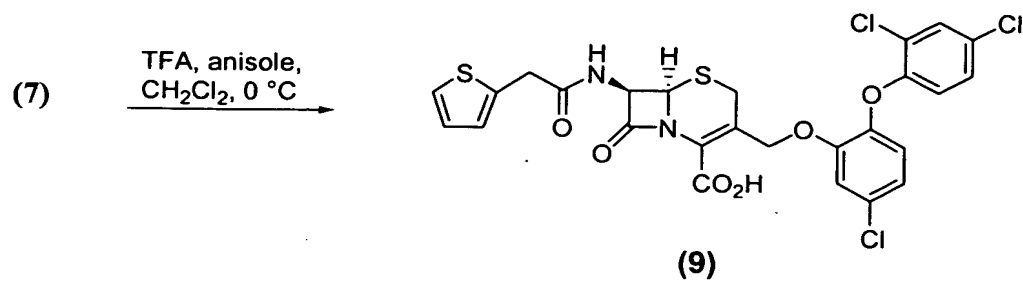


FIGURE 3

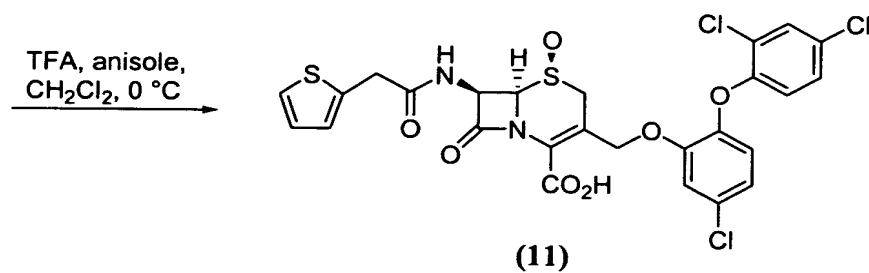
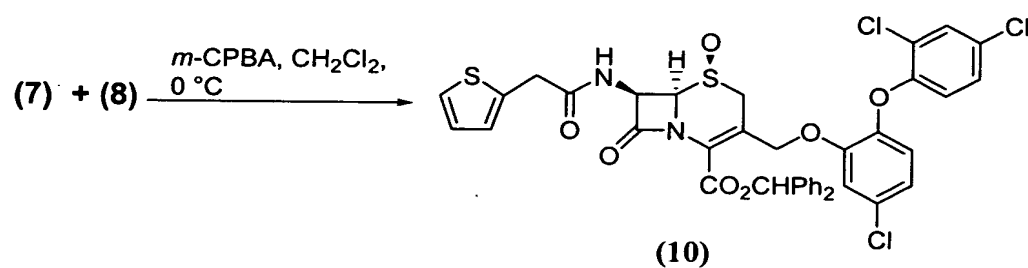
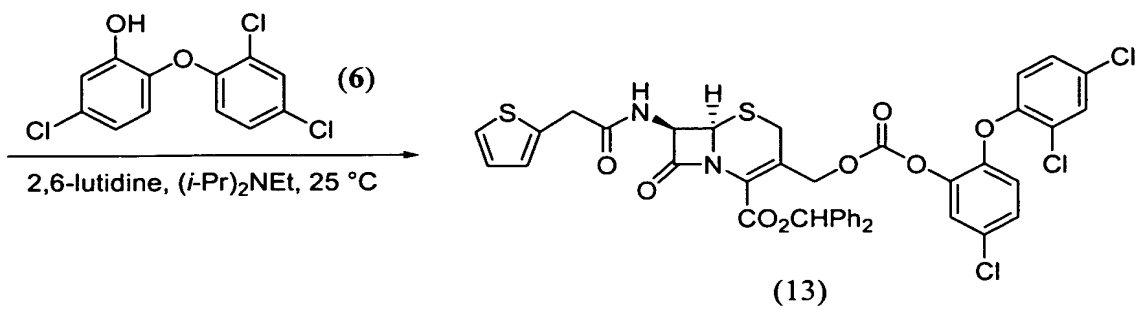
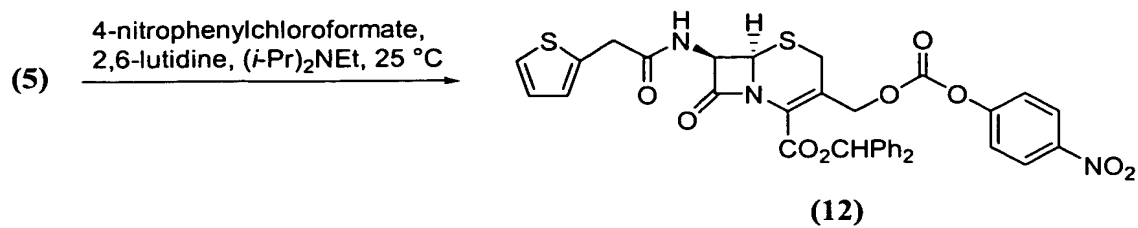


FIGURE 4



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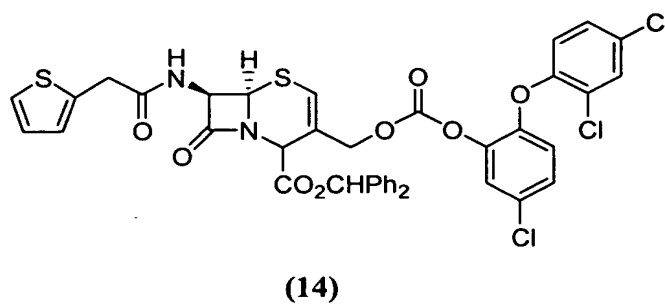


FIGURE 5

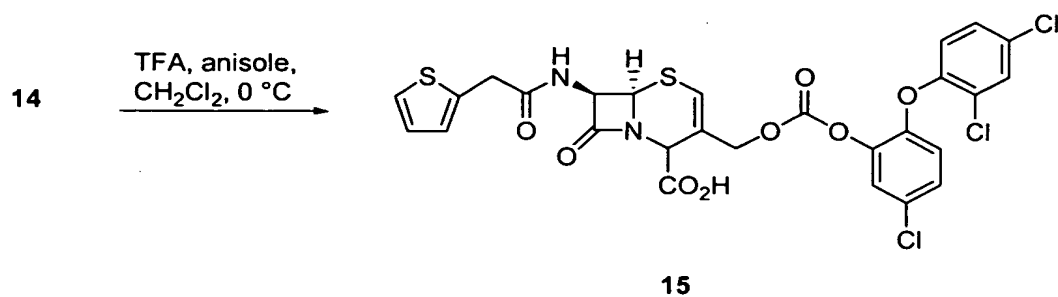


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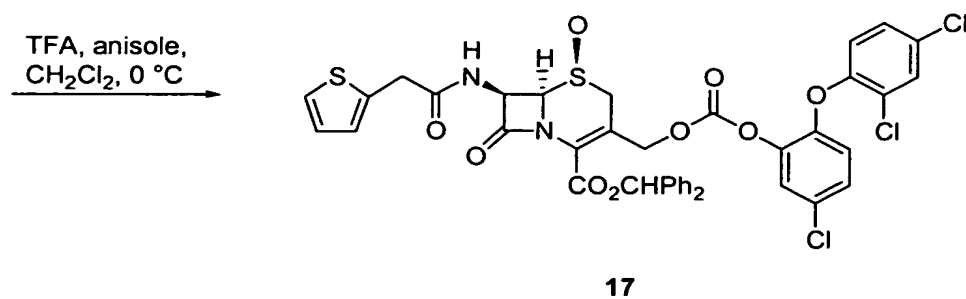
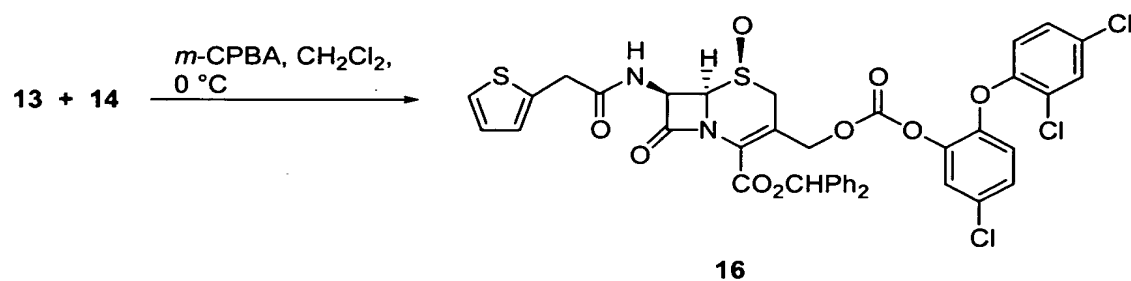
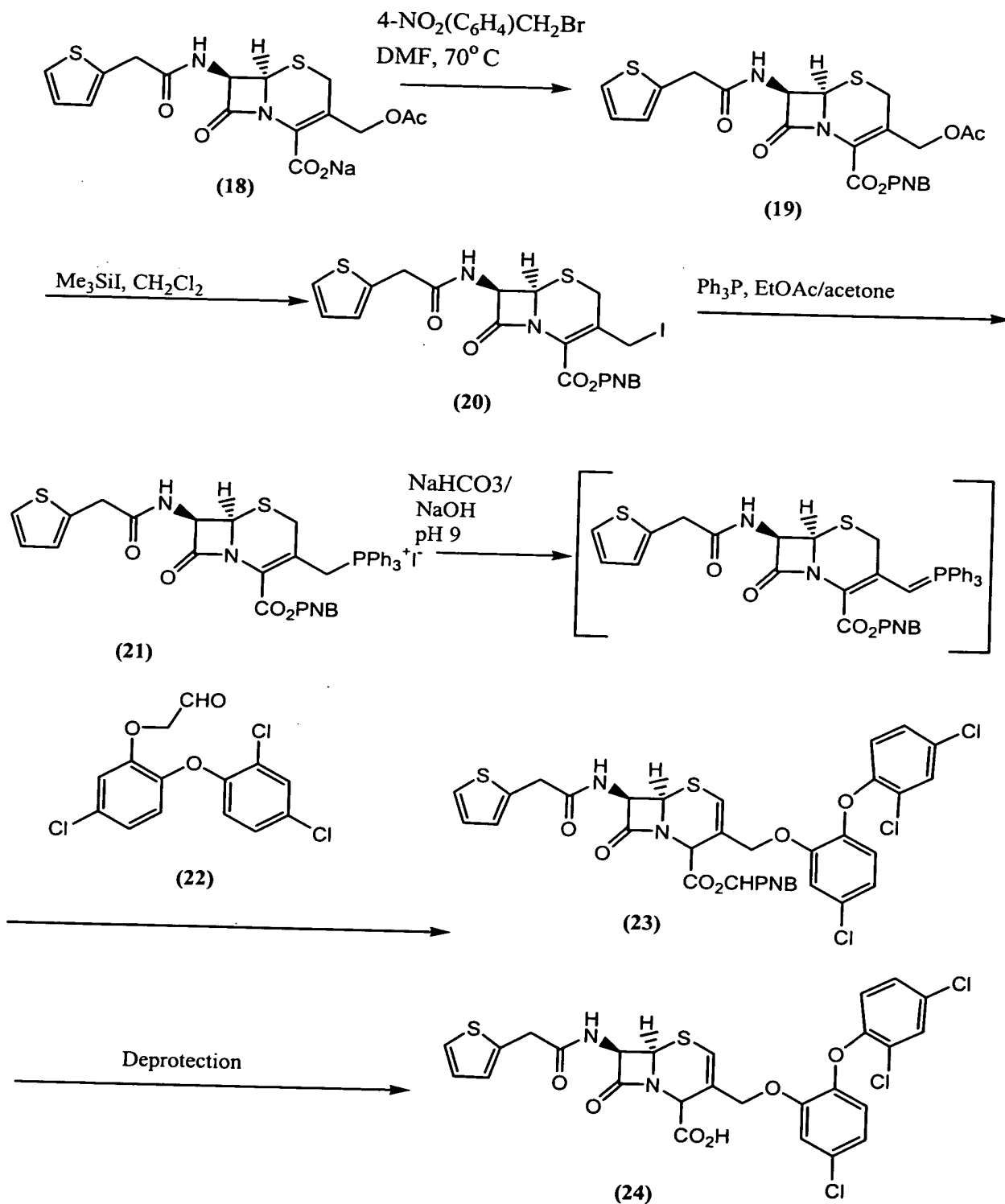


FIGURE 7



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FIGURE 8

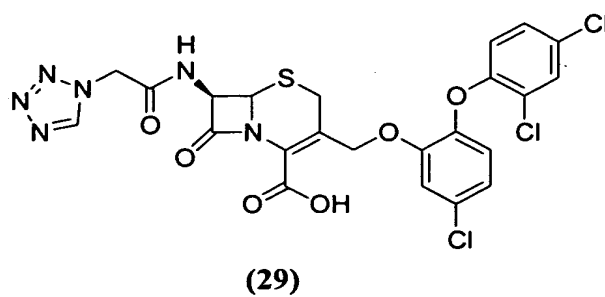
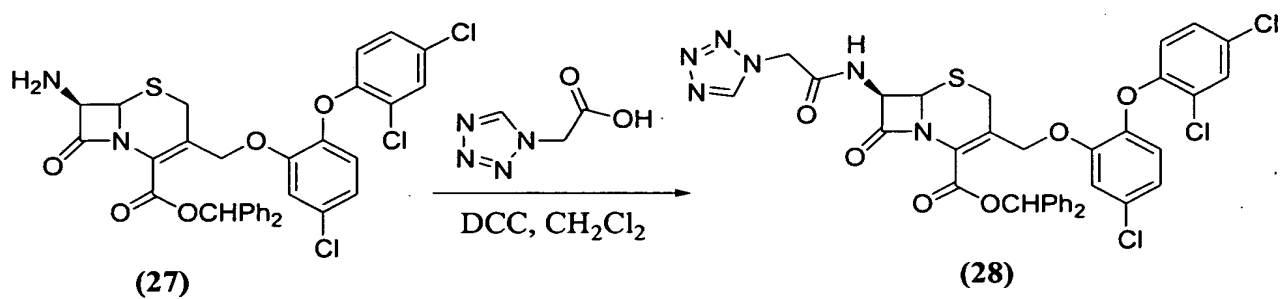
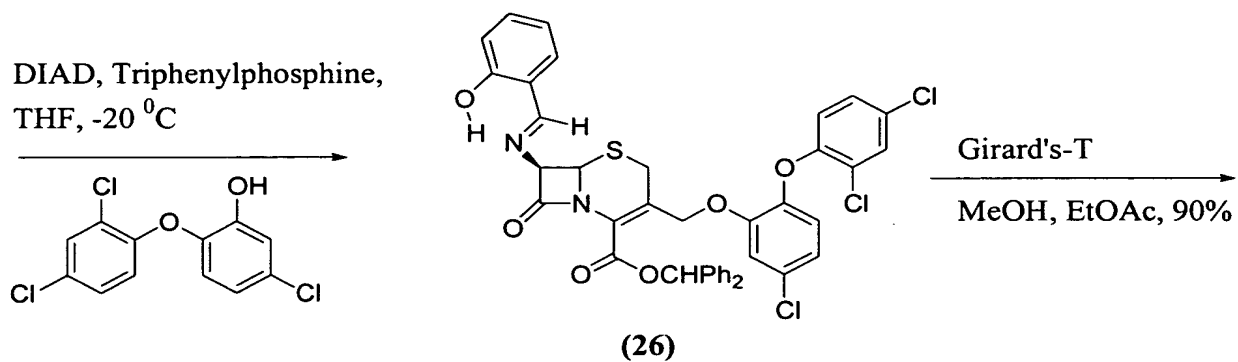
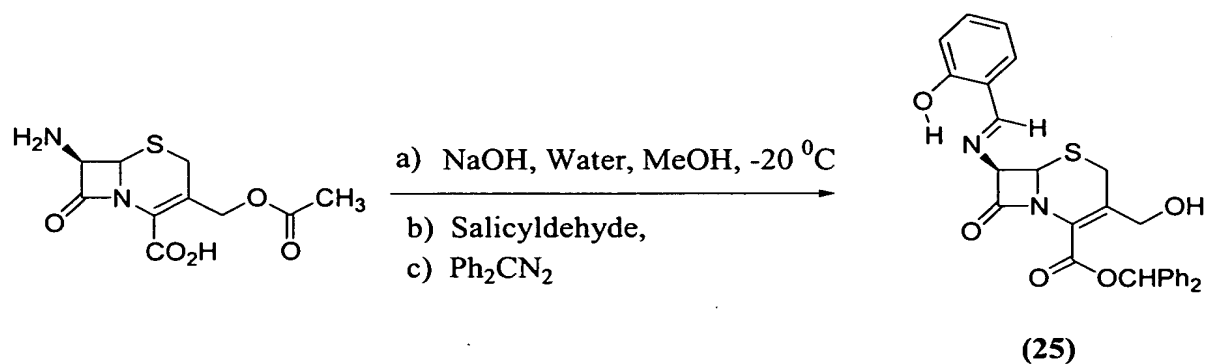


FIGURE 9

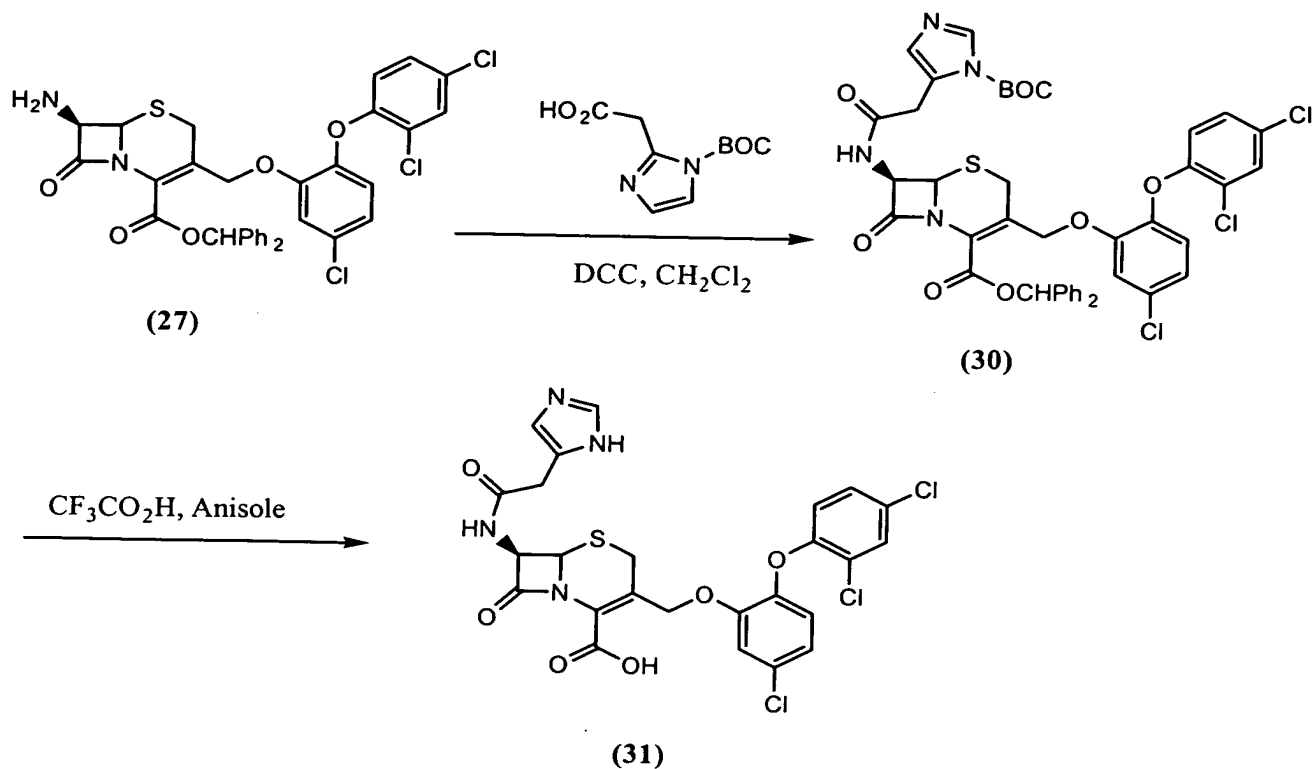


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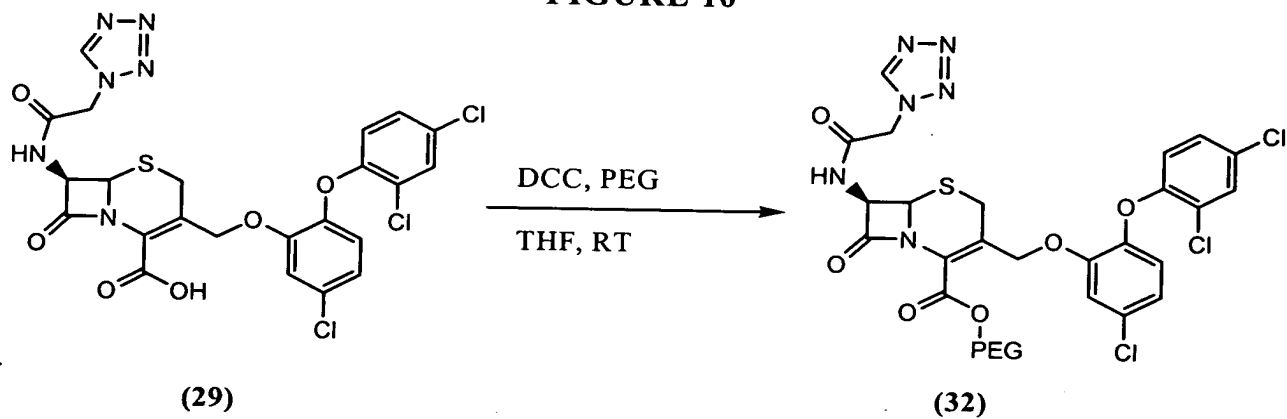


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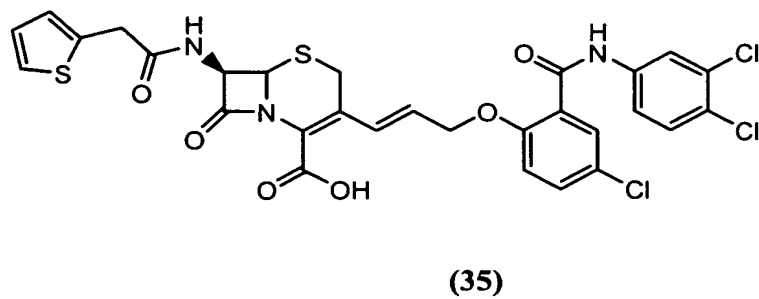
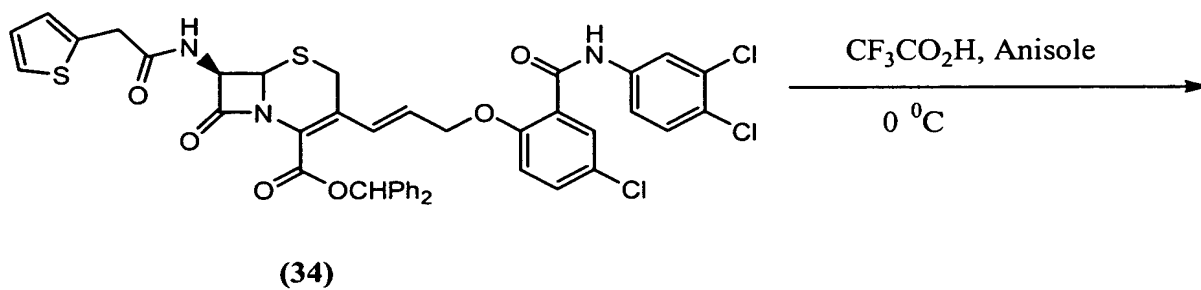
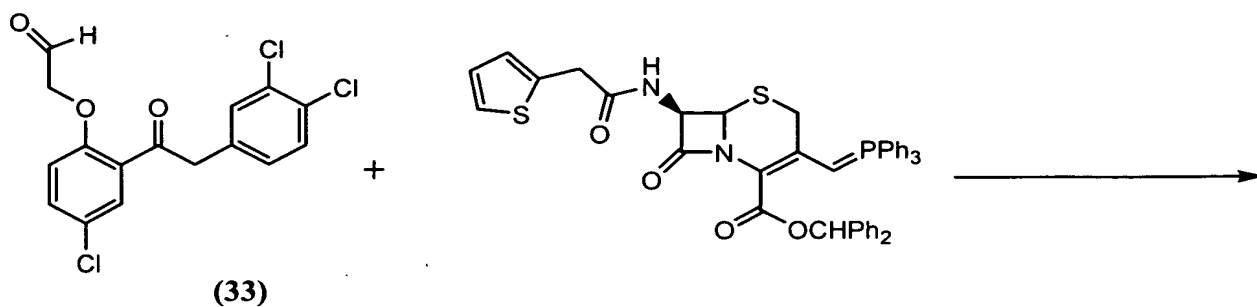
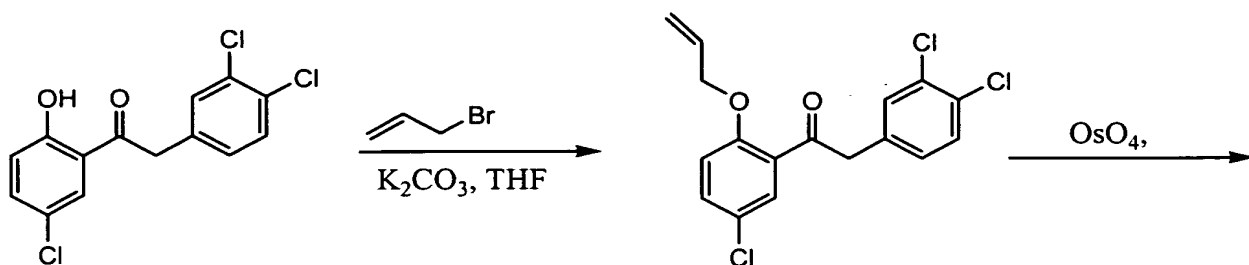
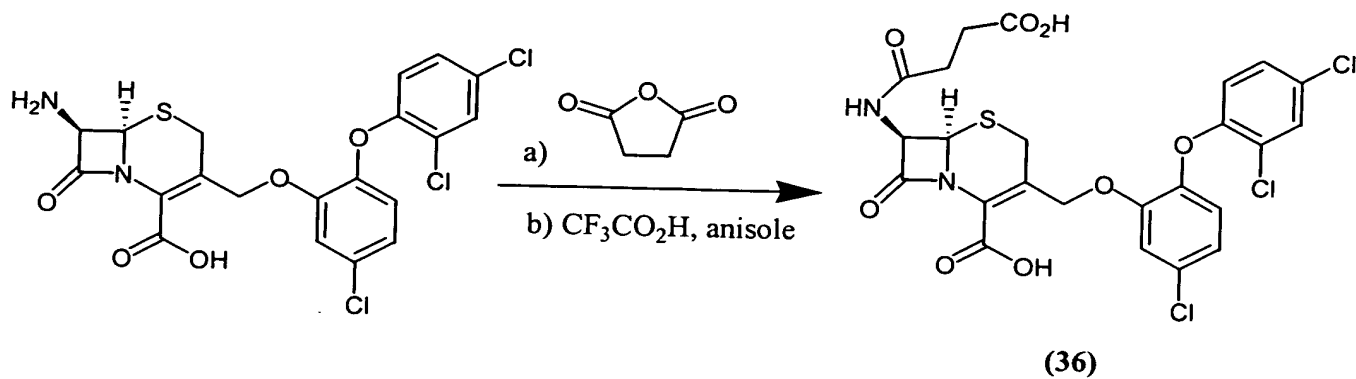


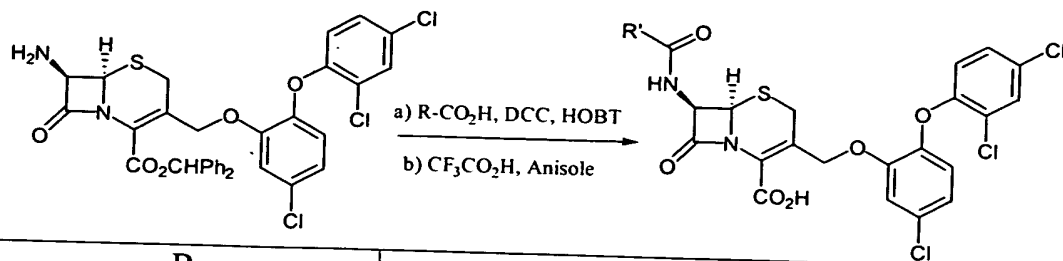
FIGURE 12



R	R'	Compound
Ph-CH ₂ -	Ph-CH ₂ -	37
Ph-CH(NH ₂)-BOC	Ph-CH(NH ₂)-	38
		39
		40
		41
		42
		43
		44
CH ₃ -	CH ₃ -	45
HO-Ph-CH ₂ -	HO-Ph-CH ₂ -	46

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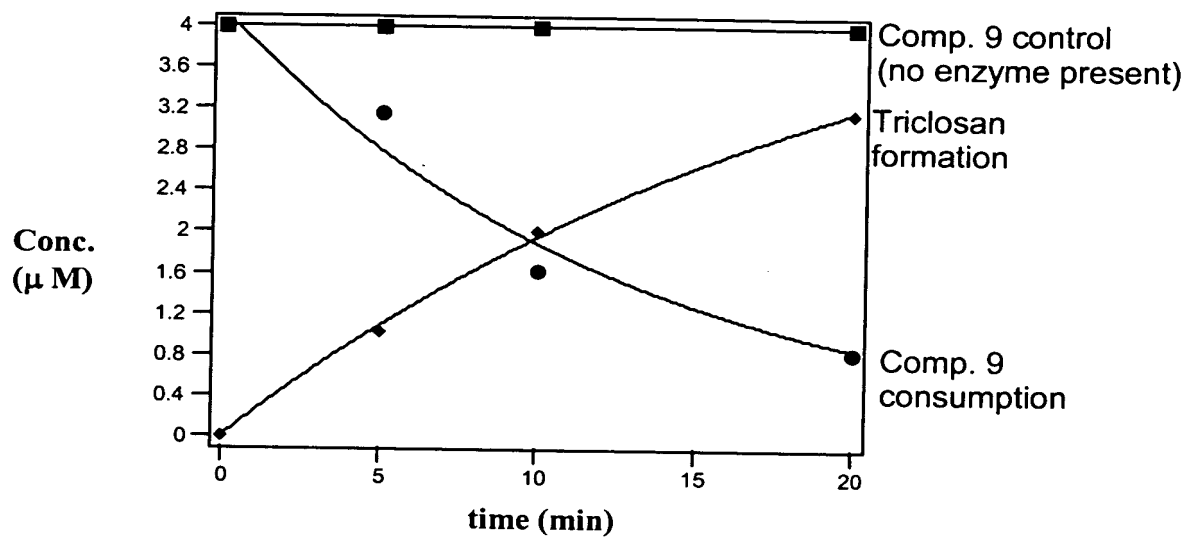
FIGURE 13



R	R'	Compound
Ph-CH ₂ -	Ph-CH ₂ -	37
Ph-CH(NH ₂)-BOC	Ph-CH(NH ₂)-	38
		39
		40
		41
		42
		43
		44
CH ₃ -	CH ₃ -	45
HO-Ph-CH ₂ -	HO-Ph-CH ₂ -	46
		47

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FIGURE 14



TEM-1 β -lactamase (12.5 nM) catalyzed hydrolysis of Comp. 9
100 mM K-phosphate buffer pH 7.2 with 1 mM EDTA

FIGURE 15

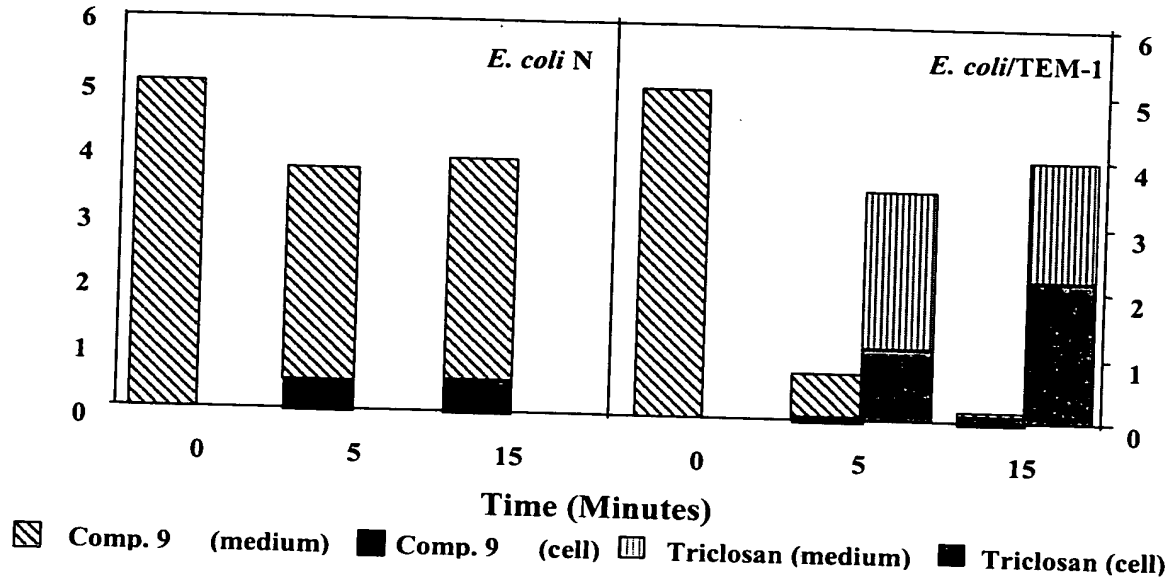


FIGURE 16

Bactericidal activity of Comp (9) vs. *S. aureus*

